

# SAFETY DATA SHEET

Creation Date 06-Oct-2009

Revision Date 25-Apr-2019

**Revision Number** 4

1. Identification **Product Name** Methylmagnesium iodide, 3M solution in diethyl ether Cat No. : AC427400000, AC427401000, AC427408000 **Synonyms** No information available **Recommended Use** Laboratory chemicals. Food, drug, pesticide or biocidal product use Uses advised against Details of the supplier of the safety data sheet Company Acros Organics **Fisher Scientific** One Reagent Lane One Reagent Lane Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

# 2. Hazard(s) identification

### Classification

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Tel: (201) 796-7100

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 1
Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/irritation	Category 1 B
Serious Eye Damage/Eye Irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system, Central nervous s	ystem (CNS).
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# Label Elements

#### Signal Word Danger

#### **Hazard Statements**

Extremely flammable liquid and vapor Harmful if swallowed Harmful in contact with skin Harmful if inhaled

Causes severe skin burns and eye damage

Causes serious eye damage

May cause respiratory irritation. May cause drowsiness and dizziness



# **Precautionary Statements**

Prevention Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Response Call a POISON CENTER or doctor/physician if you feel unwell Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Immediately call a POISON CENTER or doctor/physician Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician Ingestion Rinse mouth Do NOT induce vomitina IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Fire Explosion risk in case of fire Fight fire with normal precautions from a reasonable distance Evacuate area Storage Store locked up Store in a closed container Store in a well-ventilated place. Keep cool Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Reacts violently with water May form explosive peroxides Repeated exposure may cause skin dryness or cracking

Component		CAS-No	Weight %
Ethyl ether		60-29-7	60
Magnesium, iodomethyl-		917-64-6	40
	4. F	First-aid measures	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.		
Inhalation	Move to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. If not breathing, give artificial respiration.		
Ingestion	Do not induce	vomiting. Call a physician or Poison C	ontrol Center immediately.
Most important symptoms and effects	Breathing difficulties. Causes burns by all exposure routes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation		
Notes to Physician	Treat symptomatically		
	5. Fir	e-fighting measures	
Suitable Extinguishing Media		mical, dry sand, alcohol-resistant foam.	Cool closed containers exposed to fire
Unsuitable Extinguishing Media	No information available		
Flash Point	-40 °C / -40 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits	No information	n available	
Upper	No data availa		
Lower	No data availa		
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information No information		
Specific Hazards Arising from the C			

# 3. Composition/Information on Ingredients

### **Specific Hazards Arising from the Chemical**

Extremely flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Contact with water liberates extremely flammable gases.

### Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Hydrogen iodide

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA			
Health	Flammability	Instability	Physical hazards
3	4	2	W

	6. Accidental release measures			
Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing.			
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological information.			
Methods for Containment and CleanSoak up with inert absorbent material. Keep in suitable, closed containers for disposal.UpRemove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not expose spill to water.				
	7. Handling and storage			
Handling	Use only under a chemical fume hood. Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharges. Do not get in eyes, on skin, or on clothing. Do not breathe vapors/dust. Do not ingest. Do not allow contact with water. If peroxide formation is suspected, do not open or move container. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.			
Storage	Corrosives area. Flammables area. Keep away from heat and sources of ignition. Store under an inert atmosphere. Keep away from water. Protect from light. Store indoors. May form explosive peroxides on prolonged storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers should be dated when opened and tested periodically for the presence of peroxides. Should crystals form in a peroxidizable liquid, peroxidation may have occurred and the product should be considered extremely dangerous. In this instance, the container should only be opened remotely by professionals.			

# 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Ethyl ether	TWA: 400 ppm	(Vacated) TWA: 400 ppm	IDLH: 1900 ppm	TWA: 400 ppm
-	STEL: 500 ppm	(Vacated) TWA: 1200 mg/m <sup>3</sup>		STEL: 500 ppm
		(Vacated) STEL: 500 ppm		STEL: 1500 mg/m <sup>3</sup>
		(Vacated) STEL: 1500		_
		mg/m <sup>3</sup>		
		TWA: 400 ppm		
		TWA: 1200 mg/m <sup>3</sup>		

### <u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and chemical properties

Liquid

**Physical State** Appearance Odor **Odor Threshold** pН Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscositv Molecular Formula **Molecular Weight** 

No information available No information available No information available No information available No data available No information available -40 °C / -40 °F No information available Not applicable No data available No data available No information available No information available 1.26 No information available No data available No information available No information available No information available CH3IMg

# 10. Stability and reactivity

166.24

Reactive Hazard	Yes	
Stability	Light sensitive. heat sensitive. Moisture sensitive. Air sensitive.	
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition. Exposure to light. Exposure to moist air or water. Exposure to air.	
Incompatible Materials	Strong oxidizing agents, Strong acids	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Hydrogen iodide		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	Reacts violently with water.	

11. Toxicological information

### Acute Toxicity

Product Information Oral LD50 Dermal LD50 Vapor LC50 Component Information

Category 4. Category 4. ATE = 1000 - 2000 mg/kg. Category 4. ATE = 10 - 20 mg/l.

Componen	t	LD50 Oral LD50 Dermal LC50 Inha			nhalation	
Ethyl ether		1215 mg/kg (Rat)	1215 mg/kg (Rat) 20 mL/kg (Rabbit)		LC50 = 32000 ppm (Rat) 4 h	
Toxicologically Syn Products Delayed and immed	-	No information availa		d long-term expo	sure_	
Irritation		Causes burns by all e	Causes burns by all exposure routes			
Sensitization		No information availa	No information available			
Carcinogenicity		The table below indic	The table below indicates whether each agency has listed any ingredient as a car			as a carcinogen.
Component	CAS-N	D IARC	NTP	ACGIH	OSHA	Mexico
Ethyl ether	60-29-7	Not listed	Not listed	Not listed	Not listed	Not listed
Magnesium, iodomethyl-	917-64-	6 Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information availa	able			
Reproductive Effect	uctive Effects No information available.					
Developmental Effe	cts	No information availa	able.			
Teratogenicity		No information availa	No information available.			
STOT - single expos STOT - repeated exp		Respiratory system C None known	Respiratory system Central nervous system (CNS) None known			
Aspiration hazard	on hazard No information available					
Symptoms / effects delayed	,both acute	tiredness, nausea an emesis is contraindic investigated: Ingestic	nd Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation			astric lavage or should be
Endocrine Disruptor Information No information available						
Other Adverse Effects The toxicological properties have not been fully investigated.						

# 12. Ecological information

Ecotoxicity Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethyl ether	Not listed	LC50: > 10000 mg/L, 96h static (Lepomis macrochirus) LC50: = 2560 mg/L, 96h flow-through (Pimephales promelas)	EC50 = 5600 mg/L 15 min	EC50 = 165 mg/L/24h
Persistence and Degradat	bility No information	on available		
Bioaccumulation/ Accumu	ulation No information	on available.		

### Mobility

Component	log Pow
Ethyl ether	0.82

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13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Ethyl ether - 60-29-7	U117	-

# 14. Transport information

UN-NoUN3399Proper Shipping NameORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLEProper technical nameMethylmagnesium iodide, 3M in Diethyl etherHazard Class4.3Subsidiary Hazard Class3Packing GroupIIDGUN3399Proper Shipping NameORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLEHazard Class4.3Subsidiary Hazard Class3Packing GroupIIATAUN3399Proper Shipping NameORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLEHazard Class4.3Subsidiary Hazard Class3Packing GroupIIATAUN3399Proper Shipping NameOrganometalic substance, liquid, water-reactive, flammable (Mixture)Hazard Class3Packing GroupIIMDG/IMOUN3399Proper Shipping NameOrganometallic substance, liquid, water-reactive, flammable (Mixture)Hazard Class3Acking GroupIIMDG/IMOUN3399Proper Shipping NameOrganometallic substance, liquid, water-reactive, flammable (Mixture)Hazard Class4.3	DOT	
Proper technical name Methylmagnesium iodide, 3M in Diethyl ether   Hazard Class 4.3   Subsidiary Hazard Class 3   Packing Group 1   TDG 1   UN-No UN3399   Proper Shipping Name ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE   Hazard Class 4.3   Subsidiary Hazard Class 3   Packing Group 1   IATA 1   UN-No UN3399   Proper Shipping Name Organometalic substance, liquid, water-reactive, flammable (Mixture)   Hazard Class 3   Packing Group 1   IATA UN-No   UN-No UN3399   Proper Shipping Name Organometalic substance, liquid, water-reactive, flammable (Mixture)   Hazard Class 3   Subsidiary Hazard Class 3   Packing Group 1   IMDG/IMO UN3399   Proper Shipping Name Organometallic substance, liquid, water-reactive, flammable (Mixture)   UN-No UN3399   Proper Shipping Name Organometallic substance, liquid, water-reactive, flammable (Mixture)	UN-No	UN3399
Hazard Class 4.3   Subsidiary Hazard Class 3   Packing Group I   TDG UN3399   Proper Shipping Name ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE   Hazard Class 4.3   Subsidiary Hazard Class 3   Packing Group I   IATA UN3399   Proper Shipping Name Organometalic substance, liquid, water-reactive, flammable (Mixture)   Hazard Class 4.3   Subsidiary Hazard Class 3   Proper Shipping Name Organometalic substance, liquid, water-reactive, flammable (Mixture)   Hazard Class 3   Packing Group I   IMDG/IMO UN3399   Proper Shipping Name Organometallic substance, liquid, water-reactive, flammable (Mixture)   IMDG/IMO UN3399   Proper Shipping Name Organometallic substance, liquid, water-reactive, flammable (Mixture)	Proper Shipping Name	ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE
Subsidiary Hazard Class3Packing GroupITDGUN3399Proper Shipping NameORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLEHazard Class4.3Subsidiary Hazard Class3Packing GroupIIATAUN3399Proper Shipping NameOrganometalic substance, liquid, water-reactive, flammable (Mixture)Hazard Class3.3Subsidiary Hazard Class3.3Poper Shipping NameOrganometalic substance, liquid, water-reactive, flammable (Mixture)Hazard Class3.3Packing GroupIIMDG/IMOUN3399Proper Shipping NameOrganometallic substance, liquid, water-reactive, flammable (Mixture)MDG/IMOIUN-NoUN3399Proper Shipping NameOrganometallic substance, liquid, water-reactive, flammable (Mixture)	Proper technical name	Methylmagnesium iodide, 3M in Diethyl ether
Packing Group I   TDG UN-No UN3399   Proper Shipping Name ORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLE   Hazard Class 4.3   Subsidiary Hazard Class 3   Packing Group I   IATA UN-No   UN-No UN3399   Proper Shipping Name Organometalic substance, liquid, water-reactive, flammable (Mixture)   Hazard Class 4.3   Subsidiary Hazard Class 4.3   Subsidiary Hazard Class 4.3   Subsidiary Hazard Class 1   Hazard Class 4.3   Subsidiary Hazard Class 3   Packing Group I   IMDG/IMO UN3399   Proper Shipping Name Organometalic substance, liquid, water-reactive, flammable (Mixture)   Hazard Class 3   Packing Group I	Hazard Class	4.3
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UN-NoUN3399Proper Shipping NameORGANOMETALLIC SUBSTANCE, LIQUID, WATER-REACTIVE, FLAMMABLEHazard Class4.3Subsidiary Hazard Class3Packing GroupIIATAUN3399Proper Shipping NameOrganometalic substance, liquid, water-reactive, flammable (Mixture)Hazard Class4.3Subsidiary Hazard Class3Proper Shipping NameOrganometalic substance, liquid, water-reactive, flammable (Mixture)Hazard Class3Packing GroupIIMDG/IMOUN3399Proper Shipping NameOrganometallic substance, liquid, water-reactive, flammable (Mixture)Organometallic substance, liquid, water-reactive, flammable (Mixture)	Packing Group	
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UN-NoUN3399Proper Shipping NameOrganometalic substance, liquid, water-reactive, flammable (Mixture)Hazard Class4.3Subsidiary Hazard Class3Packing GroupIIMDG/IMOUN3399UN-NoUN3399Proper Shipping NameOrganometallic substance, liquid, water-reactive, flammable (Mixture)	Packing Group	
Proper Shipping Name Organometalic substance, liquid, water-reactive, flammable (Mixture)   Hazard Class 4.3   Subsidiary Hazard Class 3   Packing Group I   IMDG/IMO UN3399   Proper Shipping Name Organometallic substance, liquid, water-reactive, flammable (Mixture)	<u>IATA</u>	
Hazard Class 4.3   Subsidiary Hazard Class 3   Packing Group I   IMDG/IMO UN3399   Proper Shipping Name Organometallic substance, liquid, water-reactive, flammable (Mixture)	UN-No	UN3399
Subsidiary Hazard Class 3   Packing Group I   IMDG/IMO UN3399   Proper Shipping Name Organometallic substance, liquid, water-reactive, flammable (Mixture)	Proper Shipping Name	Organometalic substance, liquid, water-reactive, flammable (Mixture)
Packing Group I   IMDG/IMO UN3399   Proper Shipping Name Organometallic substance, liquid, water-reactive, flammable (Mixture)	Hazard Class	4.3
IMDG/IMO   UN3399     VN-No   UN3399     Proper Shipping Name   Organometallic substance, liquid, water-reactive, flammable (Mixture)	Subsidiary Hazard Class	3
UN-No   UN3399     Proper Shipping Name   Organometallic substance, liquid, water-reactive, flammable (Mixture)	Packing Group	
Proper Shipping Name Organometallic substance, liquid, water-reactive, flammable (Mixture)	IMDG/IMO	
	UN-No	UN3399
Hazard Class 4.3	Proper Shipping Name	Organometallic substance, liquid, water-reactive, flammable (Mixture)
	Hazard Class	4.3
Subsidiary Hazard Class 3	Subsidiary Hazard Class	3
Packing Group	Packing Group	
15. Regulatory information		15. Regulatory information

### United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Ethyl ether	60-29-7	Х	ACTIVE	-
Magnesium, iodomethyl-	917-64-6	Х	INACTIVE	-

### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

**TSCA 12(b)** - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Ethyl ether	60-29-7	Х	-	200-467-2	Х	Х	Х	Х	KE-27690
Magnesium, iodomethyl-	917-64-6	-	Х	213-031-1	-	-	-	-	-

### U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Ethyl ether	100 lb	-
California Proposition 65 This product	does not contain any Proposition 65 ch	emicals

### U.S. State Right-to-Know

#### Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethyl ether	Х	Х	Х	-	Х

### U.S. Department of Transportation

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

# U.S. Department of Homeland Security

This product contains the following DHS chemicals:

**Legend** - STQs = Screening Threshold Quantities, APA = A placarded amount

Component	DHS Chemical Facility Anti-Terrorism Standard
Ethyl ether	Release STQs - 10000lb

### Other International Regulations

Mexico - Grade

No information available

# 16. Other information

Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	06-Oct-2009 25-Apr-2019 25-Apr-2019 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

# End of SDS